

RECEIVED

JAN 02 2003

TECH CENTER 1600/2900

#12
Seqdist 1638

1600

RAW SEQUENCE LISTING

DATE: 12/13/2002

PATENT APPLICATION: US/10/031,818B

TIME: 13:46:17

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\12132002\J031818B.raw

ENTERED

4 <110> APPLICANT: Ozeki, Yoshihiro
5 Takashi, Fukuda
6 Oyanagi, Mikiko
7 Koda, Takatoshi
9 <120> TITLE OF INVENTION: Novel Miniature Inverted-Repeat
10 Transposable Elements (Mites)-Like Element and
11 Transcriptional Activation Element
13 <130> FILE REFERENCE: SAEG100.001APC
15 <140> CURRENT APPLICATION NUMBER: 10/031,818B
C--> 16 <141> CURRENT FILING DATE: 2002-06-04
18 <150> PRIOR APPLICATION NUMBER: PCT/JP00/04837
19 <151> PRIOR FILING DATE: 2000-07-19
21 <150> PRIOR APPLICATION NUMBER: JP2000/175825
22 <151> PRIOR FILING DATE: 2000-06-12
24 <150> PRIOR APPLICATION NUMBER: JP11/206320
25 <151> PRIOR FILING DATE: 1999-07-21
27 <150> PRIOR APPLICATION NUMBER: JP11/206316
28 <151> PRIOR FILING DATE: 1999-07-21
30 <160> NUMBER OF SEQ ID NOS: 14
32 <170> SOFTWARE: FastSEQ for Windows Version 4.0
34 <210> SEQ ID NO: 1
35 <211> LENGTH: 769
36 <212> TYPE: DNA
37 <213> ORGANISM: Carrot (Daucus carota L. cv. Kurodagosun)
39 <400> SEQUENCE: 1
40 gggatctttt taaaaatacc catctgtaaa attatTTTTT taaaaatact accatctttt 60
41 tcattgtttt taaaaatacc ttttcataaa tttttttttt caaaaatacg atttgcaact 120
42 ttgcaacct catttgcaac cttggcgggc gcagccgtaa aagttgccag tgagggtgca 180
43 aaagttgcaa atgagtttgt aaaagttgca aatgagggtg caaaagttgc aaataaaaaat 240
44 ggaaaagttgc aacagttgca actgcaattg caactagttc aactgaaaac tgtaagttgc 300
45 aaaagttgca aatgagggtg caactaaatg caactgaaaa ctgtaagtaa caacagatgt 360
46 atggtgtgcc cctggcgggg ccgttagatt acaatagaat caactgaatg caatcatatg 420
47 caactgaata caactatag caatcatata tgcaattaca aatcctgatt tcaagttcca 480
48 gttttcgaat gtcattttcg aaatcgatat atatatatat atatatatat cgatttcgaa 540
49 aatgacattc gaaaactgga acttgaaatc aggaattcag ctgcatatga agttgcaaaa 600
50 gaggttgcaa cacggctggc gccgcctgta gttgcaaatg aggttgcaaa agttgcaaac 660
51 agtatttttg aaaaaaagat tttatgaaaa ggtattttta aaaataattc tggaaggtag 720
52 tatttttgaa aacaataaaa gaaaaggtag gtagttttgt agatttccc 769
54 <210> SEQ ID NO: 2
55 <211> LENGTH: 299
56 <212> TYPE: DNA
57 <213> ORGANISM: Carrot (Daucus carota L. cv. Kurodagosun)
59 <400> SEQUENCE: 2

RAW SEQUENCE LISTING

DATE: 12/13/2002

PATENT APPLICATION: US/10/031,818B

TIME: 13:46:17

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\12132002\J031818B.raw

```

60 ctccctacgt cccattttat gtgacctcat tttctttttg ggacgtctca aaaaaataa 60
61 cctagaatac ttactatttt ttaacactat ttttactat tacacccacc aactctatat 120
62 ttatactat ttattatta aataaacact attacacca ctacttttct ccactatctc 180
63 aaatctatta ttaaattatt ataggtccac cactttaccc acttttcaac tacatttact 240
64 acatttttct taatctccgt gaaagtcaaa ctcattcaca taaaatggga cagagggag 299
66 <210> SEQ ID NO: 3
67 <211> LENGTH: 1192
68 <212> TYPE: DNA
69 <213> ORGANISM: Carrot (Daucus carota L. cv. Kurodagosun)
71 <400> SEQUENCE: 3
72 ggtaccgggc ccccccctga ggtcactccc tacgtcccat tttatgtgac ctcatTTTTCT 60
73 ttttgggacg tctcaaaaaa aataacctag aatacttact attttttaac actatttttc 120
74 actattacac ccaccaactc tatattttat actattttat tattaaataa acactattac 180
75 acccaactact tttctccact atctcaaatc tattattaaa tattgatagg tccaccactt 240
76 taccactttt tcaactacat ttactacatt tttcttaatc tccgtgaaag tcaaactcat 300
77 tcacataaaa tgggacagag ggagtaatta ttaattttta tagacggtat cgataagctt 360
78 atcgataccg tctcagattc gcaaacataa aaagaaaagg gatcttttta aaaataccca 420
79 tctgtaaaat ttttttttta aaaatactac catctttttc attgttttta aaaatacctt 480
80 ttcataaatt ttttttttca aaaatacgat ttgcaacttt tgcaacctca tttgcaacct 540
81 tgggcggcgc agccgtaaaa gttgccagtg aggttgcaaa agttgcaaat gagtttgtaa 600
82 aagttgcaaa tgagggttgca aaagttgcaa ataaaaatgg aaagttgcaa cagttgcaac 660
83 tgcaattgca actagttcaa ctgaaaactg taagttgcaa aagttgcaaa tgagggttgca 720
84 actaaatgca actgaaaact gtaagtaaca acagatgtat ggtgtgcccc tggcggggcc 780
85 gttagattac aatagaatca actgaatgca atcatatgca actgaatata actatatgca 840
86 atcatatatg caattacaaa tcttgatttc aagttccagt tttcgaatgt cattttcgaa 900
87 atcgatatat atatatatat atatatatcg atttcgaaaa tgacattcga aaactggaac 960
88 ttgaaatcag gaattcagct gcatatgaag ttgcaaaaaga ggttgcaaca cggctggcgc 1020
89 cgctgtagt tgcaaatgag gttgcaaaag ttgcaaacag ttttttgaa aaaaagattt 1080
90 tatgaaaagg tttttttaa aataattctg gaaggtagta tttttgaaaa caataaaaga 1140
91 aaaggtaggt agttttgtag atttccaga cctcgagggg gggcccggta cc 1192
93 <210> SEQ ID NO: 4
94 <211> LENGTH: 8
95 <212> TYPE: DNA
96 <213> ORGANISM: Carrot (Daucus carota L. cv. Kurodagosun)
98 <400> SEQUENCE: 4
99 gttgcaaa 8
101 <210> SEQ ID NO: 5
102 <211> LENGTH: 8
103 <212> TYPE: DNA
104 <213> ORGANISM: Carrot (Daucus carota L. cv. Kurodagosun)
106 <400> SEQUENCE: 5
107 gttgcaac 8
109 <210> SEQ ID NO: 6
110 <211> LENGTH: 8
111 <212> TYPE: DNA
112 <213> ORGANISM: Carrot (Daucus carota L. cv. Kurodagosun)
114 <400> SEQUENCE: 6
115 tttgcaaa 8
117 <210> SEQ ID NO: 7

```

RAW SEQUENCE LISTING

DATE: 12/13/2002

PATENT APPLICATION: US/10/031,818B

TIME: 13:46:17

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\12132002\J031818B.raw

```

118 <211> LENGTH: 8
119 <212> TYPE: DNA
120 <213> ORGANISM: Carrot (Daucus carota L. cv. Kurodagosun)
122 <400> SEQUENCE: 7
123 ttgcaac 8
125 <210> SEQ ID NO: 8
126 <211> LENGTH: 7
127 <212> TYPE: DNA
128 <213> ORGANISM: Carrot (Daucus carota L. cv. Kurodagosun)
130 <400> SEQUENCE: 8
131 tatgcaa 7
133 <210> SEQ ID NO: 9
134 <211> LENGTH: 7
135 <212> TYPE: DNA
136 <213> ORGANISM: Carrot (Daucus carota L. cv. Kurodagosun)
138 <400> SEQUENCE: 9
139 aatgcaa 7
141 <210> SEQ ID NO: 10
142 <211> LENGTH: 158
143 <212> TYPE: DNA
144 <213> ORGANISM: Carrot (Daucus carota L. cv. Kurodagosun)
146 <400> SEQUENCE: 10
147 gggatctttt taaaaatacc catctgtaaa attatttttt taaaaatact accatctttt 60
148 tcattgtttt taaaaatacc ttttcataaa tttttttttt caaaaatacg atttgcaact 120
149 ttgcaacct catttgcaac ctgggcggc gcagccgt 158
151 <210> SEQ ID NO: 11
152 <211> LENGTH: 158
153 <212> TYPE: DNA
154 <213> ORGANISM: Carrot (Daucus carota L. cv. Kurodagosun)
156 <400> SEQUENCE: 11
157 acggctggcg ccgcctgtag ttgcaaatga ggttgcaaaa gttgcaaaaca gtatttttga 60
158 aaaaaagatt ttatgaaaag gtatttttaa aaataattct ggaaggtagt atttttgaaa 120
159 acaataaaaag aaaaggtagg tagttttgta gatttccc 158
161 <210> SEQ ID NO: 12
162 <211> LENGTH: 32
163 <212> TYPE: DNA
164 <213> ORGANISM: Carrot (Daucus carota L. cv. Kurodagosun)
166 <400> SEQUENCE: 12
167 ctccctacgt cccattttat gtgacctcat tt 32
169 <210> SEQ ID NO: 13
170 <211> LENGTH: 32
171 <212> TYPE: DNA
172 <213> ORGANISM: Carrot (Daucus carota L. cv. Kurodagosun)
174 <400> SEQUENCE: 13
175 aaactcattc acataaaaatg ggacagaggg ag 32
177 <210> SEQ ID NO: 14
178 <211> LENGTH: 1553
179 <212> TYPE: DNA
180 <213> ORGANISM: Carrot (Daucus carota L. cv. Kurodagosun)

```

RAW SEQUENCE LISTING

DATE: 12/13/2002

PATENT APPLICATION: US/10/031,818B

TIME: 13:46:17

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\12132002\J031818B.raw

182 <400> SEQUENCE: 14

```

183 ggtaccgggc cccccctcga ggtcactccc tacgtcccat tttatgtgac ctcatTTTTct 60
184 ttttgggacg tctcaaaaaa aataacctag aatacttact attttttaac actatTTTTc 120
185 actattacac ccaccaactc tatatTTTTat actatTTTTat tattaaataa acactattac 180
186 acccactact tttctccact atctcaaate tattattaaa tattgatagg tccaccactt 240
187 taccactttt tcaactacat ttactacatt tttcttaate tccgtgaaaag tcaaactcat 300
188 tcacataaaa tgggacagag ggagtaatta ttaattttaa taaattatat gtgattttga 360
189 ttatgtgtgg attcttgata aaatatcaca gagttgatat aaattctaaa gatttaacca 420
190 caatgtttca aaatctcata gatttttagta ggattcaaaa aatttaaaat acgttcaaaa 480
191 atctcataaa attcatcatt ttattaaatc caaaaaaatc cagtaaatatt tgacaatcag 540
192 attttaaatga attttaaatt gaacaatctc agttgaatac catgagattt taaaatataa 600
193 tttaaaattc taattgaata ccaccagatt ttgtaaaata attttaaatt ttaattgaat 660
194 attcaagatt ttaatatatt ttaaaataatc tcgatctgaa ttacaaaaaa tgcttaaaat 720
195 ctgaatccca tacgtcctct cagattcgca aacataaaaa gaaaagggat ctttttaaaa 780
196 atacccatct gtaaaattat ttttttaaaa atactaccat ctttttcatt gtttttaaaa 840
197 ataccttttc ataaatTTTT tttttcaaaa atacgatttg caacttttgc aacctcattt 900
198 gcaaccttg ggcgcgcagc cgtaaaagtt gccagtggag ttgcaaaagt tgcaaatgag 960
199 tttgtaaaag ttgcaaatga ggttgcaaaa gttgcaata aaaatggaaa gttgcaacag 1020
200 ttgcaactgc aattgcaact agttcaactg aaaactgtaa gttgcaaaag ttgcaaatga 1080
201 ggttgcaact aaatgcaact gaaaactgta agtaacaaca gatgtatggg gtgcccctgg 1140
202 cggggccggt agattacaat agaatcaact gaatgcaatc atatgcaact gaatacaact 1200
203 atatgcaatc atatatgcaa ttacaaatcc tgatttcaag ttccagtttt cgaatgtcat 1260
204 tttcgaaatc gatatatata tatatatata tatatcgatt tcgaaaatga cattcgaaaa 1320
205 ctggaacttg aaatcaggaa ttcagctgca tatgaagttg caaaagaggg tgcaacacgg 1380
206 ctggcgccgc ctgtagttgc aaatgaggtt gcaaaagttg caaacagtat ttttgaaaaa 1440
207 aagattttat gaaaaggat ttttaaaaat aattctggaa ggtagtattt ttgaaaacaa 1500
208 taaaagaaaa ggtaggtagt tttgtagatt tcccagacgg tatcgataag ctt 1553

```

VERIFICATION SUMMARY

DATE: 12/13/2002

PATENT APPLICATION: US/10/031,818B

TIME: 13:46:18

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\12132002\J031818B.raw

L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date